- MySQL and CVS upgrades
- Hardware deployment
- Condor / Grid status
- /minos file server
- Parrot status
- AFS instability
- FNALU plans

# MYSQL and CVS upgrades

- Testing upgrade to 5.x on minos-mysql2
  - Probably change write passwords
  - When ready, minos-db1 network alias will move
  - Will add separate CRL server instance
  - Will add replicas for Farm and Analysis
- CVS will move to the CDCVS server
  - Will still use minoscvs alias, and have full control
  - Early next year, transparent to users

# Hardware deployment

- /minos/data2 24 TB Hitachi
  - /minos/data symlinks to new disk, use them
  - Users and analysis files remain on old SataBeast
- Dcache 2 TB rw data, 10 TB ntuples coming soon
- Servers 2x4 core 2.6 Ghz Intel, 16 GB memory
  - minos-mysql2 testing mysql1 will be Farm server
  - minos27 NIS master and interactive please test
  - Minos-sam04 coming soon
  - minos25 upgraded Condor master node

#### Condor/Grid status

- Condor queue on Minos Cluster heavily used
- GlideinWMS continues in heavy episodic use
  - Over 1K running processes, tens of K queued
  - Expanded to FermiGrid (CDF nodes)
  - Many other improvements by Ryan Patterson
    - Cluster access, minos\_q, groups, Fermigrid
- Lab authentication has 4/second limit, avoid global rm
- Minos25 hardware upgrade Dec 5
  - due to I/O wait overloads

#### /minos NFS fileserver

- NexSAN SataBeast, connected to BlueArc via FC SAN
  - Performance issues being investigated
- Global failures in early December, first since July
  - due to CMS disks and Bluearc firmware
- 24 TB new Hitachi disk deployed in /minos/data
  - users, analysis remain on original disk
  - symlinks to /minos/data2 for the rest
  - Use the symlinks, we will eventually re-merge

# PARROT deployment on Fermigrid

- PARROT provides virtual AFS file system to any client
  - Supported by Doug Thain at Notre Dame
- Minos using in production for Fermigrid analysis jobs
- Python has recently broken under Parrot
  - strange error messages, no SAM
- Should retire AFS from our 8 GPFarm nodes

### **AFS** instability

- AFS continues to time out on occasion
  - About once per month per node, for 2 minutes
  - Will continue to investigate next year

### **FNALU plans**

- FNALU LSF was replaced with Condor by Sep 15
  - Half of former capacity, old nodes retired
  - We may expand Minos Cluster capacity FY09